

## WORKSHOPS 2022 - 2023

Name of the event : Origami Workshop

Date and day of the event : 27th & 28th September 2022

### Poster of the Event

**STES'S Sinhgad College of Architecture, Pune**  
(NAAC Accredited)

**ORIGAMI WORKSHOP**

**Aim**  
This workshop will introduce students to the basics of origami and the various techniques used. This will enhance the creative skills and put their motor skills to the actuals. They will also be taught various techniques regarding the folds of origami which can be used to create interesting models. This workshop will help students to improve their design aptitude and product/architectural output with better aesthetic sensibility.

**Schedule**  
Session 1 : Introduction to Origami  
Session 2 : Origami crease pattern  
Session 3 : Origami Deployable structure  
Session 4 : Origami Furniture  
Session 5 : Conclusion

**Requirements**  
Tinted Sheets  
Gateway Sheets (min 02 nos.)  
Stationary (cellotape, steel ruler, cutter, fevicol, pins)

**Dates**  
21st Aug - 26th Aug 2022

**Organised by**  
M.Arch (Computer Applications)  
SCOA, Pune.

**Contact details**  
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marchcomputer@sinhgad.edu

**Dr. Banani Banerjee**  
Principal, SCOA

**Dr. Smita Suryawanshi**  
HOD M.Arch (CA)

**Prof. M.N Navale**  
Founder President

**Dr. Mrs. Samanda Navale**  
Founder Secretary

**Mr. Rohit Navale**  
Vice President(HR)

**Mrs. Rachana Navale Ashtekar**  
Vice president(Admin)

Registration link



Students working on their models



Students demonstrating their models

### Origami Concept and its implementation in architectural structures.

Faculty coordinators:  
Dr. Smita Suryawanshi  
Ar. Ashwini Shitole,  
Ar. Snehal Gade

Attended by: Class/ Division: All div 3rd & 4th Year students.

Faculty Attended:  
Dr. Harsimran Kaur  
Ar. Akhil Nawani

TEAMS for PAPER TO PARAMETRIC - ORIGAMI IN ARCHITECTURE WORKSHOP (27-28th September 2022)		
Group No.		Team Members
Group 1	HEMANT SINGH	Pratibha Yadav
Group 2	ASHISH PRASAD	Sattwic Subrahmanyam Maljala
Group 3	NITISHA KOTHARI	Yazura Shankhdhar
Group 4	ANUMEH PRAKHAR	Deepti Gupta
Group 5	VEMURI LAKSHMI PRIYAMVADA	Asif Hussain Mazumder
Group 6	GOMATI GOSWAMI	Utkarsh Singh
Group 7	KAUSHAKI BHADAURIYA	Vaibhav Pandey
Group 8	AMAN SINGH	Jarasandh Kumar
Group 9	UTKARSH RAJ	Priyanshu Prasad
Group 10	TUSHAR	Hemank Vats
Group 11	ABHISEK CHOUDHURY	Shinde Prathamesh Sharadrao
Group 12	NAMAN PANDEY	Anju
Group 13	SAHIL ALI SALMANI	Jay Chandrakant Palekar

Attendance for the workshop

### Event Description:

The workshop was arranged for 3rd & 4th Year of B.Arch. of IIT BHU, Varanasi.

The aim of the workshop was to introduce the concept of Origami and implementing it into making deployable structures.

## WORKSHOPS 2022 - 2023

Name of the event : Workshop on "Environmentally Optimized Design Elements and Structure"

Date and day of the event : 12th October, 2022, Wednesday to 14th October, 2022.

### Poster of the Event

**STES' S** AM  
**SINHGAD COLLEGE OF ARCHITECTURE, PUNE**

To learn modelling structures using Rhinoceros 3D software and environmentally optimising the same with the help of Grasshopper 3D and Ladybug Plugin.

The skills gained from this workshop will help the students enhance their design outputs with the help of Generative optimization of structures and design elements using Solar Radiation analysis tools and Evolutionary Solver.

**EODS**  
 Environmentally Optimised  
 Design elements and Structures  
**WORKSHOP**

**Software Requirement**

Rhinoceros 3D + Grasshopper 3D + Ladybug

**Schedule of Workshop**

**Day 1**

- Discuss concept of Environmental Optimization and Parametric Design
- Introduction to Rhinoceros 3D interface
- Import/ Export models in Rhinoceros 3D
- Modelling/ Setting up files in Rhinoceros 3D

**Day 2**

- Introduction to Grasshopper 3D interface
- Basic modelling in Grasshopper 3D
- Linking Rhinoceros 3D file to Grasshopper 3D
- Installation of plugins for Grasshopper 3D

**Day 3**

- Introduction to Ladybug plugin
- Working and setting up the geometries for analysis
- Setting up the geometries for optimization with the help of evolutionary solver

**Requirements of Workshop**

**Students**

- Workshop is mainly for Masters Department
- Enrollment level is maximum 20 students
- Previous knowledge of software is not required
- Each student must have a laptop with suitable configuration (min. i3 or equivalent 8 GB Ram)

**College**

- LCD/ Digital projector with screen
- Classroom with charging sockets and internet connection is preferable

**Organised By**  
 Department of M. Arch. Computer Applications, SCAA, Pune

Contact Details: +91 94220 37373 / +91 81482 67543  
 marchcomputer@sinhgad.edu

**Registration**

Dr. Basant Banerjee, Principal, SCAA  
 Dr. Smita Suryawanshi, HOD CA Department

Prof. M. N. Navale, Founder President  
 Dr. Mrs. Sumantra Navale, Founder Secretary  
 Mr. Rohit Navale, AOD President (M.A.)  
 Mrs. Rachna Navale Ashikar, Vice President (Admin)



Students attendees for the workshop



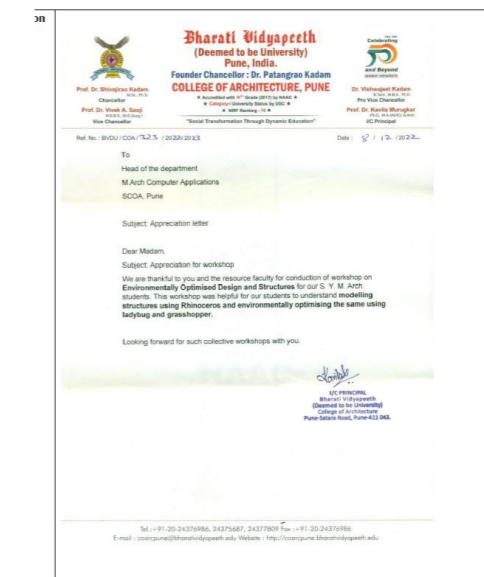
Students engrossed in the presentation

### "Environmentally Optimized Design Elements and Structure"

Faculty coordinators:  
 Ar. Saajan Mehta & Ar. Ankoor Patil (M. Arch. Computer Applications)

Attended by: Second Year Students of M. Arch Sustainable Architecture of Bharti Vidyapeeth

Faculty Attended:  
 Faculty member of M. arch Sustainable Architecture of Bharti Vidyapeeth



Letter of Appreciation

### Event Description:

Dept. of M. Arch. Sustainable Architecture of Bharati Vidyapeeth College of Architecture initiated a collaborative studio with our dept. of Comp. Appl.

- This workshop was helpful for the students to understand modelling structures using rhinoceros and environmentally optimising the same using ladybug and grasshopper plugins